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The University of Buffalo Bulletin

College of Arts and Sciences

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Catalogue for 1918-19

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University Statistics, 1917-1918

DEPARTMENT	Founded	Alumni Organized	Number of Faculty	Number of Students	Years in Course	Degrees Conferred through 1918	
Medicine	1846	1875	115	213✓	4	M. D.,	2961
Pharmacy	1886	1889	13	120✓	2-3	Ph. G.,	680
						Phar. B.,	353
						Phar. M.,	28
						Phar. D.,	6
						Ph. C.,	6
Law	1887	1914	22	129✓	3	LL. B.,	742
						LL. M.,	12
Dentistry	1892	1900	47	279✓	4	D. D. S.,	1142
Pedagogy	1895*					Pd. B.,	5
						Pd. M.,	1
						Pd. D.,	2
Analytical Chemistry..	1906	1914	12	67✓	3	A. C.,	106
Arts and Sciences.....	1913		20	214✓	3		
						Ph. D.,	1
						B. S.,	1
			Totals	229**	1,022		6,046

*Discontinued in 1898.

****Deducting duplications, 216.**

The University of Buffalo

SEVENTY-SECOND YEAR

SEVENTH ANNUAL CATALOGUE
OF THE
College of Arts and Sciences
1918-1919

NIAGARA SQUARE
BUFFALO, NEW YORK
JANUARY 1919

UNIVERSITY CALENDAR

1919

FEBRUARY	17, <i>Monday</i> .	Second semester begins.
FEBRUARY	22, <i>Saturday</i> .	University Day recess. Public exercises, 10.30 A. M.; annual dinner, Federated Alumni Association, 7 P. M.
MARCH	7, <i>Friday</i> .	} Examinations for students conditioned in the first semester.
MARCH	8, <i>Saturday</i> .	
APRIL	17, <i>Thursday</i> .	Spring recess begins.
APRIL	22, <i>Tuesday</i>	Classes resumed.
JUNE	20, <i>Friday</i> .	Seventy-third Commencement.
SEPTEMBER	22, <i>Monday</i> .	Examinations begin for conditioned students.
SEPTEMBER	29, <i>Monday</i> .	Opening exercises for all departments, 4.30 P. M., Townsend Hall.
SEPTEMBER	30, <i>Tuesday</i> .	First semester begins.
NOVEMBER	4, <i>Tuesday</i> .	Election Day, recess.
NOVEMBER	26, <i>Wednesday</i> .	Thanksgiving recess begins, 12.30 P. M.
DECEMBER	1, <i>Monday</i> .	Classes resumed.
DECEMBER	20, <i>Saturday</i> .	Christmas recess begins, 12.30 P. M.

1920

JANUARY	5, <i>Monday</i> .	Classes resumed.
JANUARY	30, <i>Friday</i> .	Semi-annual examinations begin.
FEBRUARY	9, <i>Monday</i> .	Second semester begins.

The University of Buffalo

DEPARTMENTS

1846 <i>Medicine</i>	1892 <i>Dentistry</i>
1886 <i>Pharmacy</i>	1895-1898 <i>Pedagogy</i>
1891 <i>Law</i>	1906 <i>Analytical Chemistry</i>
1913 <i>Arts and Sciences</i>	

CHANCELLORS

1846-1874.....	HIS EXCELLENCY MILLARD FILLMORE
1874-1884.....	ORSAMUS H. MARSHALL ..
1884-1895.....	E. CARLETON SPRAGUE
1895-1902.....	JAMES O. PUTNAM
1902-1903.....	WILSON S. BISSELL
1903-1905.....	GEORGE GORHAM (<i>Acting Chancellor</i>)
1905-1909.....	CHARLES P. NORTON (<i>Vice-Chancellor</i>)
1909-	CHARLES P. NORTON

THE COUNCIL

	<i>Elected</i>
CHARLES CARY, M. D., 340 Delaware Ave.....	1879
HENRY R. HOWLAND, 217 Summer St.....	1901
LOUIS L. BABCOCK, LL. B., Fidelity Bldg.....	1904
*JOHN LORD O'BRIAN, B. A., LL. B., LL. D., Iroquois Bldg.....	1904
JOHN B. OLMSTED, B. A., 183 Bryant St.....	1904
CHARLES P. NORTON, B. A. (Chancellor), Erie Co. Bank Bldg.....	1905
LORAN L. LEWIS, M. A., LL. B., Erie Co. Bank Bldg.....	1906
EDWARD MICHAEL, Brisbane Building.....	1906
WILLIAM H. GRATWICK, B. A., Marine Bank Bldg.....	1908
PHILIP BECKER GOETZ, B. A. (Secretary), North Evans, N. Y.....	1914
WALTER P. COOKE, LL. B., Marine Bank Building.....	1916
WILLIS G. GREGORY, M. D., Ph. G., 125 Bedford Ave.....	1890
<i>Member-elect from the Faculty of Pharmacy</i>	
CARLOS C. ALDEN, LL. M., J. D., 27 Ashland Ave.....	1913
<i>Member-elect from the Faculty of Law</i>	
DANIEL H. SQUIRE, D. D. S., 37 Allen Street.....	1913
<i>Member-elect from the Faculty of Dentistry</i>	
CHARLES SUMNER JONES, B. S., M. D., 695 Delaware Ave.....	1918
<i>Member-elect from the Faculty of Medicine</i>	
JULIAN PARK, Ph. D. (Treasurer pro tem.), 77 Richmond Ave.....	1918
<i>Member-elect from the Faculty of Arts and Sciences</i>	
GROVER W. WENDE, M. D., 471 Delaware Ave.....	1918
<i>Member-elect from the Medical Alumni</i>	
GEORGE S. BUCK, B. A., LL. B., City Hall.....	
<i>Mayor of the City of Buffalo (ex-officio)</i>	

* Absent on Government Service.

Officers of Administration and Instruction

FACULTY

- ALBERT P. SY, PH. D.....219 Crescent Ave.
Professor of Chemistry.
- *PHILIP BECKER GOETZ, B. A.....North Evans, N. Y.
Professor of English.
- WILFRED H. SHERK, M. A.....367 West Delevan Ave.
Professor of Mathematics.
- JULIAN PARK, PH. D.....77 Richmond Ave.
Professor of History.
- ALFRED ELY DAY, M. A.....183 Bryant St.
Acting Professor of Biology.
- M. SMITH THOMAS, A. C.....771 Bird Ave.
Associate in Physics, Chairman of Department.
- FELIX A. CASSASA, *Officier d'Académie*.....130 Mariner St.
Associate in French, Chairman of Department.
- P. FREDERICK PIPER, B. S.....851 Richmond Ave.
Lecturer in Geology and Instructor in Physics.
- *FRANCISCO E. DiBARTOLO, B. A., LL. B.....United States Army
Instructor in Italian.
- SUSAN F. CHASE, M. A., PD. D.....11 Ketchum Place
Lecturer in Psychology.
- CHARLES E. RHODES, M. A.....507 Potomac Ave.
Lecturer in English.
- MARY H. LEWIS.....2412 Main St.
Lecturer in Education, Chairman of Department.
- CARL WACHTER, B. A.....46 North Pearl St.
Instructor in Public Speaking.
- CHARLES W. WHITNEY, PH. M.....1028 Elmwood Ave.
Lecturer in Economics.
- WILLIAM B. ARVINE, B. A.....481 Franklin St.
Instructor in English and Latin.

WALTER D. HEAD, M. A.....	873 West Ferry St.
<i>Instructor in Education.</i>	
MME. MARIE L. CASASSA.....	130 Mariner St.
<i>Instructor in French.</i>	
AUGUSTUS H. SHEARER, PH. D.....	383 Franklin St.
<i>Lecturer in History.</i>	
LOUISA H. S. LAWTON, B. S. in Education.....	2412 Main St.
<i>Instructor in Education.</i>	
OCTAVIO SOTO, C. E.....	591 Grider St.
<i>Instructor in Spanish.</i>	
CARL F. SIEKMANN.....	94 Parkdale Ave.
<i>Instructor in German.</i>	
W. HOWARD PILLSBURY, B. A.....	Telephone Bldg.
<i>Instructor in Education.</i>	
AUBREY C. DAYMAN.....	52 Ketchum Place
<i>Assistant in Physics.</i>	

* Absent on leave.

MEMBERS OF OTHER FACULTIES GIVING INSTRUCTION IN THE COLLEGE OF ARTS AND SCIENCES

FREDERICK H. PRATT, M. A., M. D.....	57 Tillinghast Place
<i>Professor of Physiology, Faculty of Medicine.</i>	
WILLIAM V. IRONS, PH. D.....	2834 Delaware Ave., Kenmore
<i>Professor of Inorganic Chemistry, Faculty of Chemistry.</i>	
WAYNE J. ATWELL, PH. D.....	24 High St.
<i>Professor of Anatomy, Faculty of Medicine.</i>	
CORNELIUS M. BROWN, M. A.....	546 Delaware Ave.
<i>Assistant Professor of Chemistry, Faculty of Chemistry.</i>	
ALBERT H. HOPKINS, B. A.....	449 West Delevan Ave.
<i>Instructor in Mechanical Drawing, Faculty of Chemistry.</i>	

LECTURERS, 1918

(exclusive of members of the University faculty)

HARRY CUMPSON, Buffalo (piano recital).

AUGUSTUS H. SHEARER, PH. D., Buffalo.

REV. JOHN W. ROSS, Buffalo.

POULTNEY BIGELOW, M. A., Malden-on-Hudson, N. Y.

FRANK H. SEVERANCE, L. H. D., Secretary Buffalo Historical Society
(four lectures).

JOHN D. WELLS, M. A., Editor Buffalo Evening News.

BENJAMIN STOLBERG, Harvard University.

CHARLES S. HAMLIN, LL. D., Governor Federal Reserve Board
(University Day speaker).

FREDERICK C. FERRY, Sc.D., LL.D., President Hamilton College
(Commencement speaker).

ADELBERT MOOT, Regent University of the State of New York
(speaker at opening convocation).

Administration

JULIAN PARK.....	<i>Acting Dean</i>
PHILIP B. GOETZ.....	<i>Chairman of the Faculty</i>
WILLIAM B. ARVINE.....	<i>Secretary</i>
EMMA E. DETERS.....	<i>Registrar</i>
JEAN AGNEW.....	<i>Librarian</i>
WILLIAM A. GAMBLE.....	<i>Custodian of Building</i>

FACULTY COMMITTEES

The Dean is a member of all committees.

Executive—MESSRS. GOETZ, SHERK, SY, THOMAS.

Admissions and Credentials—MESSRS. SHERK, THOMAS.

Absences—MESSRS. DAY, ARVINE.

Library—MESSRS. SHEARER, CASASSA, RHODES.

Social Activities—MISS CHASE, MESSRS. PIPER, WHITNEY.

Representatives on Committee of Management, University Y. M. C. A.

—MESSRS. PARK, DAY.

Representatives on Committee on Student Activities—MESSRS. SY,
ARVINE.

STUDENTS' ARMY TRAINING CORPS

WILLIAM D. RILEY.....Captain Infantry, U. S. A.
Commanding Officer.

WALLACE E. CAMPBELL.....Second Lieutenant Infantry, U. S. A.
Personnel Officer.

FRANCIS E. CHRESTIAN.....Second Lieutenant Infantry, U. S. A.

EVERETT D. DOW.....Second Lieutenant Infantry, U. S. A.
Adjutant.

EDWARD J. FOX, JR.....Second Lieutenant Infantry, U. S. A.

JOSEPH S. HUBBARD.....Second Lieutenant Infantry, U. S. A.

GEORGE H. HUDSON.....Second Lieutenant Infantry, U. S. A.

THEODORE E. RONDTHALER....Second Lieutenant Infantry, U. S. A.

MERRILL E. SHOUP.....Second Lieutenant Infantry, U. S. A.
Quartermaster.

FREDERICK J. PARMENTER, M. D.,
Surgeon.

LOUIS L. BABCOCK, LL. B.....Brigadier General New York Guard
Lecturer on Military Law and Practice.

EDWARD L. JUNG, LL. B.....Judge Advocate New York Guard
Lecturer on Military Law and Practice.

CHARLES A. BENTZ, M. D.,
Lecturer on Hygiene and Sanitation.

The University of Buffalo

THE CITY. Ever since its establishment the University has been so closely identified with the growth of the city that certain facts preliminary to the history proper of the University may be of interest. The village of Buffalo was laid out by Joseph Ellicott, the surveyor, in 1801-2; it grew rapidly, became the county seat in 1808, quickly recovered from its total destruction during the war of 1812, and obtained a city charter in 1832. Among the factors contributing most to its growth and prosperity has been its location, notable both for its natural beauties and for its commercial advantages. The high land and temperate climate, together with excellent drainage and water-supply systems, make Buffalo one of the healthiest cities in the country. Its population, numbering today 490,000, is cosmopolitan, including large and prosperous Polish and Italian colonies. It is a city of homes and culture; the character of its citizenship makes for an atmosphere singularly favoring those agencies and institutions which diffuse general intelligence and refinement. It is the largest city in the country which has adopted the commission form of government. Its educational system includes grammar, high, and normal schools, the equipment and staff of which are of noteworthy excellence, four new high schools and the state normal school having been completed within the last four years. There is constant and close coöperation between the superintendent, officials, and teachers of the city School Department and the University, about a hundred teachers last year being registered in the College of Arts and Sciences as special students.

Other agencies of culture and instruction, supplementing in their own fields the work of the University, are The Buffalo Fine Arts Academy, which offers in the Albright Art Gallery a succession of loan exhibitions as well as a constantly increasing permanent collection; the Buffalo Public Library, with about 375,000 volumes, which is only three blocks distant from the College of Arts and Sciences; the Grosvenor (reference) Library, with 125,000 volumes, two of whose staff are members of the University faculty; the Buffalo Society of Natural Sciences, which is erecting a new museum; and several other organizations.

THE UNIVERSITY. The beginnings of the endeavors for higher education in Buffalo reach back to within three years after the town became a city. A charter for the Western University was secured from the Legislature in 1835, and the project was actively forwarded until it was halted by the economic panic of 1837. After the lapse of a few years it was revived by a group of physicians who aimed to fill the need in this part of the state of facilities for medical education. These eminent men, Drs. James P. White, Frank H. Hamilton, Austin Flint, and others, while the interests of their own profession naturally came first, were far-seeing enough to place the basis of medical education on an academic foundation. They did not live to see the establishment of facilities for the academic training of medical students in their own institution, but they provided the first requisite toward that end—legal permission. On May 11, 1846, the act of incorporation was passed by the Legislature.

The seal of the University shows that the founders had in mind colleges not only of medicine and arts, but of theology and law; but each of its departments has been added in response to recognized demands for instruction in the various professional branches. It was, however, forty years before the next department, that of Pharmacy, was established. In that year, 1886, the institution awoke to the further needs of the community in the matter of professional training. Many men eminent in their callings unselfishly offered their services to perpetuate the best traditions of their respective professions, and the University gladly availed itself of their public spirit. The policy of expansion which had begun with the founding of the Pharmacy Department was continued by the establishment of departments of Law (1891), Dentistry (1892), Pedagogy (1895, but discontinued in 1898), and Chemistry (1906). Advantage was thus taken of the broad powers granted by the charter of offering instruction and conferring degrees in any branch of professional or academic learning.

The control of the University is vested in a Council consisting of a Chancellor, secretary, and treasurer, with other members, chosen at large—a total of sixteen. In addition, each of the several faculties (now five) appoints one member to hold office during the pleasure of the faculty appointing him. Those who have held the position of Chancellor have been men of broad attainments and national reputa-

tion. Millard Fillmore, the first Chancellor, held the position for twenty-eight years, during which time he was also President of the United States. He was succeeded by Orsamus H. Marshall, who served from 1874 to 1884. His successor was E. Carleton Sprague, his term being from 1884 to 1895. He was followed by James O. Putnam (ex-minister to Belgium), who served from 1895 to 1902. Wilson S. Bissell (ex-Postmaster-General), succeeded Mr. Putnam, but his masterful influence, which promised so much in the direction of university enlargement, was cut off by his untimely death, which occurred in October, 1903. Pending the selection of his successor, George Gorham served as acting Chancellor until 1905, in which year Charles P. Norton was elected Vice-Chancellor, and became Chancellor in 1909.

On July 1, 1918, the buildings, lands, and equipment of the University had an estimated value of \$856,996.78; the net property owned (including endowment) amounted to a total of \$1,314,269.18. The present property of the University comprises the building on High Street, occupied by the departments of Medicine, Pharmacy, and Chemistry; the adjoining building on Goodrich Street, occupied by the Department of Dentistry, which also leases space in the Sidway Building, four blocks below the college building on Main Street, to the extent of 6,000 square feet, where a new chemical laboratory has been installed; the building of the Law Department, on West Eagle Street, opposite the City Hall and adjacent to Townsend Hall; Townsend Hall, on Niagara Square, which at present accomodates the College of Arts and Sciences; and a tract of 106 acres, situated on the highest land in the city, at the junction of North Main Street and the city line. This property, valued at more than \$500,000, was purchased from the county in 1909, the money being raised by popular subscription; the land will constitute the future campus for the College of Arts and Sciences and for certain of the professional departments. Funds sufficient for the erection and maintenance of the first building on this site have already been secured.

Although the University up to 1913 was a group of professional schools only, the project of completing it by the establishment of a liberal arts department had been before the people of Buffalo for a number of years. A modest beginning was finally made in 1913, when

the University Council authorized instruction in certain courses of college grade. Since then these courses have been successfully carried on, with considerable additions to the curriculum from year to year as public demands have been expressed and satisfied. In 1915 the courses, up to that time more or less under the auspices of the Medical Department, were constituted a regular department of the University, and since that year several noteworthy gifts have made possible its erection into a permanent college, enabling the University of Buffalo to take rank as a complete and well-rounded institution.

The first of these gifts came on February 22, 1915, when the Women's Educational and Industrial Union presented its building to the University, conditional on the raising, before February 22, 1916, of \$100,000 toward endowment. On the latter date this condition was complied with, Mrs. Seymour H. Knox with her children giving the necessary amount, as well as pledging \$50,000 for each of the next three years and a final amount of \$250,000 as a bequest. This munificent gift, together with others which have already been and may be from time to time added to it, is known as the Seymour H. Knox Foundation, of which the income is to be used for endowment.

Also in 1916, there was announced a gift from General Edmund Hayes for a building on the new site, amounting to \$250,000, conditional on the raising of one million dollars by June, 1919.

In 1915 the University of the State of New York registered the freshman year of the new department as accredited college work, and also signified its intention of taking similar action from time to time until the full four years' course should be recognized. In accordance with this intention, the sophomore year was approved in the winter of 1917 and the junior year in 1918. Consequently the Arts Department then ceased to be merely a "junior college," and only awaited the restoration of normal conditions to be placed on a degree-giving basis, and to plan a building program which should adequately provide for those facilities for higher non-sectarian, co-educational training which the city has so long lacked.

The University and the War

Of all parts of our educational machinery, the colleges and universities were the most completely put out of gear by the war. The first draft, combined with the remarkable response of college men to the opportunity to volunteer, made enormous inroads in the student body, notably depleting the upper classes in colleges and in the graduate and professional schools of the universities. The lowering of the draft age in August brought almost all university students into the military establishment; and it is scarcely an exaggeration to say that the American college for men as it was prior to 1917 had practically ceased to exist. As a necessary means of co-operation for keeping men in college and at the same time of providing the army with the necessary material for sorely needed officers, the War Department, during the summer of 1918, transformed the colleges throughout the country into institutions for the education of members of the Students' Army Training Corps. Such action involved revolutionary changes in curriculum, methods of work, conditions of life, and discipline—in fact in the whole character of college life.

The action taken was farsighted and logical, for the valuable plants and instructional forces of our institutions of learning could be turned to no better use, when the forces of barbarism were threatening to overrun the world, than furnishing a citizen soldiery with knowledge, theoretical and practical, the better to fit it to drive back the common foe of civilization. If the academic work was badly disrupted, consolation may easily be found in the reflection that without some such action, the draft, together with the impulsion of patriotism, would have almost entirely depleted the colleges.

The University of Buffalo was one of the first institutions in New York State to be selected for the establishment of a unit of the Students' Army Training Corps. The quota assigned to it was 750 men, including a naval section of fifty.

Definite programs were prescribed by the Committee on Education and Special Training of the War Department for members of the unit in accordance with their ages, the student-soldiers being divided into

20-, 19- and 18-year-old groups, and then subdivided according to their military preferences and capabilities. Courses in theoretical and practical military work were in charge of the officers detailed to the unit, while members of the University faculty taught allied subjects. Among the latter were courses in war issues; hygiene and sanitation; military law and practice; surveying and map-making; military geography, etc. Such a combination of liberal college training and military instruction was regarded by the War Department as providing the best possible training for leadership. This fact was shown, even in the short time between the induction of the student-soldiers and the signing of the armistice, by the number of transfers from the University unit to officers' training camps. From the College of Arts and Sciences alone about a quarter of the men enrolled were called to camp during October and November.

With the demobilization of the corps the University returned to its peace schedule, new classes being formed where necessary.

Admission

All correspondence in matters of admission should be addressed to the Chairman of the Committee on Admissions.

REQUIREMENTS FOR ADMISSION

The College of Arts and Sciences, like all of the other departments of the University, is non-sectarian and co-educational. Candidates for admission must present satisfactory evidence of good character, including a recommendation from the head of the school last attended; and those coming from other colleges must bring certificates of honorable withdrawal, together with an official statement of college work already done.

Applications for admission should be filed by candidates as soon after the completion of the preparatory work as possible, but in any case before September 15 of the year in which they wish to enter college. The Committee on Admissions reserves the right to decline any application which has not been thus filed. An application blank for admission is to be secured on application to the Dean, who, on receipt of this blank filled out, will send to the principal of the school last attended by the candidate a copy of the statement required for admission. On this blank is to be given a transcript of the candidate's scholastic standing during each of the previous four years. Upon the receipt of this statement in satisfactory form depends the matriculation of the candidate. Statements must be signed by the principal of the school (or some one duly qualified to act in his stead) and are to be sent by him to the Chairman of the Committee on Admissions. Blank statements will be sent to the principal of any school on his request or that of a prospective student, but they are not sent to other persons, and must be returned by the school, not by the applicant. When more than a year has passed between the completion of the work for which the statement vouches and the time of admission to college, satisfactory evidence that the candidate has kept up his studies in the interval is required.

No matriculation of regular students will be permitted after the week in which college opens. This rule also applies to special students who wish college credit for their work.

A fair equivalent of the requirements for admission will be accepted, but candidates for admission are advised to conform literally to the statements as here set forth. Enough latitude is allowed among the elective subjects accepted for entrance to provide for the various courses of study offered in the high schools, without affecting the subjects required of all. The scholastic requirement for admission is the completion of a four-year course of standard high-school grade, or its equivalent. This is the indispensable minimum, but is not necessarily a guarantee of admission. Early in their high school course students planning to enter this college should see that their curriculum embraces each of the required subjects. They can only do so, in some cases, if they settle before their senior high school year upon the choice of a college, and even upon their vocation, since entrance requirements and college curricula often depend upon the profession to be chosen.

The University of Buffalo holds no entrance examinations. Hence applicants secure admission by one of the following methods :

(a) CERTIFICATION. This is the customary form of entrance ; but it should be borne in mind that it presupposes graduation, with credit for the proper subjects, from an *accredited* secondary school ; and only certificates made out on the prescribed form and signed by principals of such schools are accepted in lieu of entrance examinations. By "accredited schools" is meant those secondary institutions which are fully approved for a four-year course by the New York State Department of Education. Handbook No. 24 of that department should be consulted for a list of such schools in this state.

(b) REGENTS' EXAMINATIONS. Those not holding the school diplomas of graduation may make up deficiencies and secure the necessary 15 units' credit by passing Regents' examinations in January or June in those subjects which they lack. It should be borne in mind that the September examinations are only for those desiring qualifying certificates admitting them to professional schools. Handbook No. 23 of the State Board of Regents (State Department of Education) gives information regarding these examinations. In 1919, they are held on the following dates: January 20-24, June 20-24, September 8-11, (not held for the schools).

(c) COLLEGE ENTRANCE EXAMINATION BOARD. An application to take these examinations must be made to the Secretary of the Board, 431 West 117th Street, New York City, from whom all necessary information may be obtained. These examinations are held annually at a large number of widely distributed points, including Buffalo.

ENTRANCE REQUIREMENTS

For students expecting to be candidates for the B. A., B. S., or M. D. degree, a total of $14\frac{1}{2}$ units is required. A unit is the equivalent of five recitations a week for one year in one branch of study. Two hours of laboratory work count as one hour.

The subjects and units required for admission to the B. A. and B. S. courses are as follows:

B. A. COURSE		B. S. COURSE	
English	3	English	3
Algebra: Elementary	1	Algebra: Elementary	1
Intermediate	$\frac{1}{2}$	Intermediate	$\frac{1}{2}$
Plane Geometry	1	Plane Geometry	1
History	1	History	1
Either 4 years of Latin.....	4	3 years of any language.....	3
and 2 years of any other lan-		[Or 2 years of any two lan-	
guage	2	guages	4]
[Or 3 years of Latin	3	Science	1
and 3 years of any other		Elective	3-4
language	3]		
Science	1		
Elective	1		
<hr/>		<hr/>	
$14\frac{1}{2}$		$14\frac{1}{2}$	

CONDITIONS. No candidate is eligible for admission as a regular student who presents fewer than $13\frac{1}{2}$ units of work. All conditions must be removed before a certificate for the year's work will be granted.

SPECIFICATIONS OF THE REQUIREMENTS IN EACH SUBJECT

The lack of uniformity in college entrance requirements has been such an annoyance to secondary schools that the University of Buffalo, wishing to do its share in reducing the confusion to a minimum, places few restrictions on the

nature of work in each subject. The main purpose of all the requirements for admission is to select applicants who are likely to profit most by the college courses. The following observations concerning different subjects are, however, recommended for serious consideration.

(1) ENGLISH. By three units in English is understood *four years* of work completed in that subject, since the usual school course allows only three hours per week in the upper years.

(2) MATHEMATICS. One year of algebra is insufficient. The intermediate algebra (quadratics and beyond) should, if possible, come in the last year of the school course.

(3) LANGUAGE. While three units of Latin are accepted for the B. A. course, the faculty strongly recommends that four be offered. Those looking forward to studying medicine will find at least two years of Latin highly profitable. In no language are fewer than two units accepted for either course.

(4) HISTORY. For either course a choice of history is offered. Candidates may present either (a) ancient history to 800 A. D.; (b) medieval and modern; (c) English; (d) American, with civics.

(5) SCIENCE. Candidates for either course may offer physics, chemistry, biology, advanced botany, advanced zoology, or physical geography.

(6) ELECTIVES. A sufficiently wide latitude of choice is allowed so that almost any high-school diploma includes the subjects which are accepted to make up the units of electives.

PRE-MEDICAL COURSE

A two-year course is offered by this college which meets the requirement exacted of those intending to enter upon the study of medicine at the University of Buffalo. The subjects for which credits for admission to the pre-medical course may be accepted are shown in the accompanying schedule, prepared by a joint committee of the Council on Medical Education of the American Medical Association and the Association of American Medical Colleges. It also meets the preparatory requirement exacted by the State Department of Education for the medical student's qualifying certificate. The latest handbook of the University of the State of New York gives the following requirements: "Before the medical student certificate can be issued the applicant must satisfactorily complete these two years of college study. Moreover, the applicant should present evidence of having completed satisfactory courses of study in the three sciences, --physics, chemistry, and biology, -- and the modern language, during his secondary school course of study. The secondary study of the subjects precedes and is

in addition to collegiate study of the same subjects. Students deficient in their secondary courses in any of the above sciences may make up such deficiency by the completion of at least eight semester hours (four year hours) of college work in the science or sciences in which there is a deficiency." The pre-medical college course, outlined on page 22, includes two years in each of these three subjects for all students, whether or not they have already had either of the three sciences in their secondary school course.

The Faculty of Arts and Sciences, together with the Faculty of Medicine, strongly urges upon all those intending to enter upon the study of medicine the desirability of the inclusion of Latin in the secondary curriculum. It also calls attention to the requirement in mathematics, necessitating credit in intermediate algebra.

The subjects printed in capitals on the following list, aggregating $8\frac{1}{2}$ units, are required. Other work to the amount of six units may be made up from any of the other subjects outlined on the next page.

SUBJECTS ACCEPTED FOR ENTRANCE TO THE PRE-MEDICAL COURSE

	Total units Required Elective accepted		
ENGLISH COMPOSITION (or Rhetoric) and LITERATURE	3-4	3	1
Mathematics:			
ELEMENTARY ALGEBRA	1	1	..
INTERMEDIATE ALGEBRA	$\frac{1}{2}$	$\frac{1}{2}$	..
Advanced Algebra	$\frac{1}{2}$	..	$\frac{1}{2}$
PLANE GEOMETRY	1	1	..
Solid Geometry	$\frac{1}{2}$	..	$\frac{1}{2}$
Trigonometry	$\frac{1}{2}$	..	$\frac{1}{2}$
LATIN	2-4	2*	2-4
GREEK	2-4	2*	2-4
FRENCH	2-4	2*	2-4
GERMAN	2-4	2*	2-4
Spanish or Italian	2	..	2
History:			
Ancient	1	**	1
Medieval and Modern	1	**	1
English	1	**	1
American, with Civics	1	**	1
Science***			
Biology****	1	..	1
Botany	$\frac{1}{2}$ -1	..	$\frac{1}{2}$ -1
Zoology	$\frac{1}{2}$ -1	..	$\frac{1}{2}$ -1
Physiology	$\frac{1}{2}$	..	$\frac{1}{2}$
Chemistry	1	..	1
Physics	1	..	1
Physical Geography	$\frac{1}{2}$ -1	..	$\frac{1}{2}$ -1
Agriculture	1-2	..	1-2
Bookkeeping	$\frac{1}{2}$ -1	..	$\frac{1}{2}$ -1
Commercial Geography	$\frac{1}{2}$ -1	..	$\frac{1}{2}$ -1
Domestic Science	1-2	..	1-2
Drawing—Freehand and Mechanical	$\frac{1}{2}$ -2	..	$\frac{1}{2}$ -2
Economics	$\frac{1}{2}$ -1	..	$\frac{1}{2}$ -1
Manual Training	$\frac{1}{2}$ -2	..	$\frac{1}{2}$ -2
Music—Appreciation or Harmony.....	1	..	1

*Two units are the minimum accepted.

**One unit of history prescribed.

***Credentials of each science course must include evidence of laboratory work.

****Either one year of biology, or one-half unit *each* in botany, zoology, and physiology.

CONDITIONS. Pre-medical students may carry conditions not to exceed one unit, such conditions to be removed by the end of the freshman (Arts) year. The Medical Department of the University of Buffalo allows no conditions to be carried over from the work of the pre-medical course.

SPECIAL STUDENTS

Persons of maturity are admitted to take one or more courses provided they give evidence of ability to perform successfully the regular work of the courses they wish to pursue. Those expecting to become candidates for a degree are required *at the time of their matriculation* to file the regular entrance credentials for the course leading to the degree which they have in view. Special students are subject to all the general rules of the college concerning discipline, absence, etc. In the matter of tuition fees and in arranging the hours of classes, the college endeavors to be of service as far as practicable to this large class of students, the majority of whom are teachers in the city schools.

Curriculum

The curriculum provides in general for a continuation, in the freshman year, of the subjects taken in preparatory school, no electives being permitted. In the next two years more latitude is allowed, the third year being altogether made up of electives.

FRESHMAN YEAR

B. A. candidates register for the following subjects:

	Hours Weekly
English 1.....	3
Mathematics 2-3.....	4
Latin 1.....	3
Choice of two* { French	3
{ German	3
{ Spanish	3
{ Italian	3
English 19.....	1
	<hr/>
	17

B. S. candidates register for the following subjects:

	Hours Weekly
English 1.....	3
Mathematics 2-3.....	4
Biology 1	4
Choice of two* { French	3
{ German	3
{ Spanish	3
{ Italian	3
{ Latin	3
English 19.....	1
	<hr/>
	18

*But one of the two must be that with which the student entered.

SOPHOMORE YEAR

B. A. COURSE

	Hours
French, German, Spanish, or Italian*	6
Chemistry 1, Biology 1, or Physics 1	4
History 1	3
Elective	3-6
	<hr/>
	16-19

B. S. COURSE

	Hours
French, German, Spanish, or Italian*	6
Choice of two { Chemistry 1.....	4
{ Physics 1.....	4
{ Biology 2.....	4
History 1.....	3
Elective	1-2
	<hr/>
	18-19

*Continuation of the languages taken in freshman year.

PRE-MEDICAL CURRICULUM

FRESHMAN YEAR		SOPHOMORE YEAR	
	Hours		Hours
English 1.....	3	French or German**.....	3
Biology 1.....	4	Biology 2.....	4
Chemistry 1.....	4	Physics 2.....	3
Physics 1.....	4	Chemistry 2.....	3
French or German*.....	3	Mathematics 2-3.....	4
		English 2.....	2
		English 6.....	1
	—		—
	18		20

*Continuation of the language taken in preparatory school. If the student presents Latin for entrance he begins French in college.

**Continuation of the language taken in freshman year.

CHEMISTRY CURRICULUM

FRESHMAN YEAR

English 1.....	3
Mathematics 2-3.....	4
Biology 1	4
Physics 1.....	4
Choice of one {	
History 1.....	3
Economics 1.....	3
Psychology	2
	—
	17-18

Upon the completion of the above subjects, students are transferred to the Chemistry Department, where they receive three years' intensive training; at the end of the four-year course a degree in chemistry is conferred.

CERTIFICATE OF MATRICULATION

Before the first recitation of the year the registrar will deliver to each applicant for admission who has been accepted a certificate of matriculation, with a memorandum of the conditions, if any, that have been recorded against the applicant. The newly-admitted students must be ready to show their certificates of admission to each of their instructors at the first appointment after the first Monday of the college year.

ATTENDANCE, MARKS AND CONDITIONS

A student is expected to attend every college exercise assigned to him, unless prevented by imperative reasons. If his absences shall not exceed a small number, it will be assumed that they are all for sufficient reasons, and no excuse need be presented. In case of conflict of classes, prescribed work takes precedence over elective, and studies of an earlier year over those of a later.

A minimum of 90 per cent. attendance in every course during each semester is necessary to entitle a student to take the mid-year and final examinations.

The marks in each subject are calculated on a scale of 100 per cent., the passing mark in each subject being 75 per cent. All absences incurred have the effect of reducing the student's final mark by one-half of the percentage of the absences; in other words, absences amounting to 10 per cent. of the total number of exercises in any course deduct 5 per cent. from the final mark. All absences incurred during the day immediately before or following any vacation count double.

The year mark in each subject is the average of the marks for the first and second semesters. The grade system of marking which is in use is defined as follows:

A (high distinction; given to the few whose work may be considered as approximately the best that can be expected of any student), 95-100.

B (superior work, plainly above the average), 90-94.

C (average work), 80-89.

D (below average but above passing), 75-79.

E (below passing mark; a conditional failure), 60-74.

F (failure, excluding the student from the course), below 60.

A student obtaining a final grade of E may take a make-up examination in September, failing to pass which he must, if the course is required, repeat it the following year. A student receiving a grade of E in the first semester may have an opportunity to remove the condition by taking a make-up examination three weeks after the beginning of the second semester.

If any student fails (i. e., secures a grade of F) in eight hours or more in the first semester, he may be dropped from college.

A student taking a make-up examination is required to pay a fee of three dollars for each such examination, these fees to be allowed to accumulate and when amounting to a sufficient sum to be used as a loan fund.

Exemptions from final examinations are granted to those students in full courses who maintain grades of A or B; but all students are required to take the mid-year examinations. The exemptions are announced at the last recitation before the final examinations.

No student may resign from a class in which he is registered without the consent of the Dean.

A report of scholarship is sent to every student's parents or guardian at the close of each semester and at such other times as the Dean may deem expedient. At the middle of each semester warnings of low scholarship are issued. If a student who has been warned fails to improve, the Dean may place him on probation for the remainder of the term. If his attendance or scholarship continue unsatisfactory, the Dean may recommend to the faculty that he be required to withdraw from college.

Probation, whether for attendance, deportment, or scholarship, implies (1) that the student may be absent only for extraordinary reasons, (2) that his conduct or scholarship must show immediate improvement, (3) that during his probation he may not represent the college in any public function.

ORDER AND DISCIPLINE

It is the aim of the college to develop in the individual the sense of personal responsibility for good order and a high standard of scholarship, and to secure, in the largest measure, his coöperation with the faculty in the development of his own character. But if such coöperation is plainly impossible, a student may be dismissed, suspended, or placed upon probation at any time, even without previous warning.

Under authority of the faculty, the Dean has charge of student discipline.*

*The administrative rules of the college, including the above, are published in a separate pamphlet, with which all students are expected to be familiar.

Departments of Instruction

The right is reserved to omit any course provided the enrollment proves not large enough to permit its being conducted. Courses enclosed within brackets are not given in 1918-19.

BIOLOGY

BIOLOGY 1. *Botany*. A general course in morphological, physiological, and systematic botany, including an elementary study of the problems of cytology, reproduction, and evolution.

Two lectures or recitations and two laboratory periods of two hours each, weekly, throughout the year; four hours' credit. Required of Science and pre-medical freshmen.

PROFESSOR DAY.

BIOLOGY 2. *Zoology*. A general course in zoology, the first semester being devoted to invertebrates and the second to vertebrates, including the comparative anatomy of vertebrates and elementary histology and embryology.

Two lectures or recitations, and two laboratory periods of two hours each, weekly, throughout the year; four hours' credit. Required of pre-medical sophomores.

PROFESSOR DAY.

BIOLOGY 3. *Histology*. Following a detailed consideration of the primary tissues, the organs are considered from the standpoint of their formation from the primary tissue structures; the embryological development of the organs is correlated with their histological structure.

Prerequisite: Biology 1 and 2.

Two recitations or lectures and three hours' laboratory work weekly throughout the year; three hours' credit.

PROFESSOR ATWELL AND PROFESSOR DAY.

BIOLOGY 4. *Physiology*. This course is devoted mainly to laboratory work, in which special experimental problems are worked out in nerve and muscle, circulation, respiration, heat-regulation, and the physiology of exercise. Part of the course is devoted to determinations upon circulation and respiration in animals, with the preparation of graphic records. Opportunity for undertaking research is offered to properly qualified students.

Prerequisite: Biology 2.

Three recitations and four hours laboratory work, weekly, throughout the year; five hours' credit.

PROFESSOR PRATT.

CHEMISTRY

CHEMISTRY 1. *Inorganic.* No previous knowledge of chemistry is required, but those who have already studied the subject in high school or elsewhere will be given an opportunity to do advanced work.

Text-Book: Newell's Inorganic Chemistry for Colleges.

Two recitations or lectures, weekly, throughout the year. Required of pre-medical freshmen.

PROFESSOR SY AND ASSISTANT PROFESSOR BROWN.

CHEMISTRY 1a. *Laboratory.* The entire first semester and a part of the second are devoted to experiments in general inorganic chemistry, including the preparation of some typical inorganic compounds. The latter part of the second semester is given to elementary qualitative analysis, beginning with a study of the reactions of the various metallic elements and the compounds used in their detection, following this by the practical application of the knowledge thus gained to the detection of the metallic ions in various "unknown" solutions. Advanced work for those who have had laboratory experience will include qualitative, quantitative, and spectroscopic analysis.

Two laboratory periods of two hours each, weekly, throughout the year. Chemistry 1 and 1a, together: four hours' credit.

ASSISTANT PROFESSOR BROWN.

CHEMISTRY 2. *Organic.* The chemistry of the hydrocarbons and their derivatives, both of the aliphatic and aromatic series. Special attention is given to the chemistry of the fats, proteins, and carbohydrates.

Text-book: Haskin's Organic Chemistry.

Two recitations or lectures each week throughout the year. Required of pre-medical sophomores.

PROFESSOR SY AND ASSISTANT PROFESSOR BROWN.

CHEMISTRY 2a. *Laboratory.* The work consists of a study of some of the characteristic organic transformations, and the preparation of some of the typical organic compounds together with the reactions for their detection.

Prerequisite: Chemistry 1.

One laboratory period of two hours throughout the year. Chemistry 2 and 2a, together: three hours' credit.

ASSISTANT PROFESSOR BROWN.

CHEMISTRY 3. (a). *Qualitative Analysis.* In this work the student is given a training in the detection of the metallic elements and acid radicals according to the usual schemes.

Text-book: Professor Sy's Notes on Qualitative Analysis.

Three sessions of two hours each, weekly during the first semester; three semester hours credit.

(b). *Volumetric Analysis*. Each student makes his own volumetric solutions and uses them in the analysis of such substances as are likely to be met in the work of an analytical chemist.

Text-book: Schimpf's Essentials of Volumetric Analysis.

Two hours a week throughout the year.

PROFESSOR SY.

CHEMISTRY 4. *Quantitative Analysis*. Work is begun by the gravimetric methods for the determination of the commonly occurring elements and radicals, also the complete analysis of various minerals.

Text-book: Cummings and Kay's Quantitative Analysis.

One recitation each week and six hours laboratory work, weekly, throughout the year; four hours' credit.

PROFESSOR IRONS.

ECONOMICS

ECONOMICS 1. *General Economics*. A study of the leading principles of economic science, with some applications to modern industrial conditions. Study of text-books and of assigned collateral reading is the basis of the work; discussion of this matter in class is supplemented by occasional lectures.

Text-book: Ely's Outlines of Economics.

Three hours a week throughout the year.

MR. WHITNEY.

ECONOMICS 2. *Labor Problems*. A brief survey is made of the industrial revolution and of the development of the factory system in both Europe and the United States, followed by a study of the history of organized labor, its policies and methods. Legislation and questions affecting labor will be studied, with a consideration of such phases of socialism as bear directly on the subject. Discussion of text-book and assigned reading. At least one thesis required.

Prerequisite: Economics 1, or its equivalent.

Two hours a week throughout the year.

MR. WHITNEY.

EDUCATION

EDUCATION 1. *Primary Aims and Methods*. This course treats of the principles of teaching with special reference to children of the primary school and is planned to meet the practical needs of teachers of the first six grades. Emphasis will be laid throughout the course upon the establishment of right habits of study and work in the beginnings of education with discussions of methods of accomplishments. Everything pertaining to general control or discipline of a class will be discussed: the organization of the class, group teaching, individual teaching, daily program of work. Throughout the course, plans of work which have actually succeeded with children rather than theories will furnish the basis of discussion.

One hour a week throughout the year.

MISS LEWIS.

EDUCATION 2. *Principles of Elementary Education.* This course is planned wholly to meet the needs of supervisors and principals. It will involve a scientific study of the aims and methods advocated by leading educators and a critical examination of the work of modern schools which are foremost in demonstrating the newer ideals in education. Among the subjects to be discussed are: Curriculum of the Elementary School; Courses of Study; Programs; Teachers' Meetings; Parents' Meetings.

One hour a week throughout the year.

MISS LEWIS.

EDUCATION 3. *Industrial Arts.* This course is designed for industrial arts work in elementary schools, and will consist of demonstrations of the construction and use of ordinary tools; the fundamental principles underlying the big industries; the historical background, and the value of industrial arts to clarify ideas rather than as an end in itself. It will offer lectures and demonstrations, opportunity for discussion, and actual practice work in a well equipped shop.

One hour a week throughout the year.

MISS LAWTON.

EDUCATION 4. *History of Education.* Beginning with a brief summary of the chief points of interest presented by Greek, Roman, and medieval education, this course devotes the greater part of attention to the history of education in the United States, studying in detail the life and work of a number of American educators and several of the most important modern experimental schools. Collateral reading.

One hour a week throughout the year.

MR. HEAD.

EDUCATION 5. *Problems of the Intermediate School.* Lectures, discussion, collateral reading; at least one thesis required.

One hour a week during the second semester.

MR. PILLSBURY.

ENGLISH

ENGLISH 1. *Rhetoric, composition, and an outline of the history of English literature.* Constant drill in theme-writing.

Text-books: Wendell's English Composition; Moody and Lovett's English Literature; English prose models.

Three hours a week throughout the year. Required of all freshmen.

MR. RHODES, MR. ARVINE.

ENGLISH 2. *Reading and composition.* A continuation of English 1, with practice in theme-writing, examination of models of style, and discussion of topics of the day.

Prerequisite: English 1.

Two hours a week throughout the year. Required of pre-medical sophomores.

MR. ARVINE.

ENGLISH 3. *Great English poets of the nineteenth century.* Wordsworth, Keats, Shelley, Byron, Tennyson, Browning. Conferences, themes, collateral reading.

Prerequisite: English 1.

One hour a week throughout the year.

MR. RHODES.

[ENGLISH 4. *The Essay in the Eighteenth Century.*

Prerequisite: English 1.

One hour a week throughout the year.

PROFESSOR GOETZ.]

[ENGLISH 5. *Advanced Composition.*

Prerequisite: English 1.

One hour a week throughout the year.

PROFESSOR GOETZ.]

ENGLISH 6. *Scientific Terminology.* The object of this course is to familiarize students with the derivation and composition of the commoner scientific terms.

Prerequisite: English 1.

One hour a week throughout the year. Required of pre-medical sophomores.

MR. ARVINE.

[ENGLISH 7. *The Essay in the Eighteenth Century.* Extension of English 4, with special attention to Lamb, Hazlitt, and Stevenson.

Prerequisite: English 1.

One hour a week throughout the year.

PROFESSOR GOETZ.]

[ENGLISH 8. *Shakspeare.* Rapid reading of all the plays, with careful study of Macbeth, King Lear, and Hamlet.

Prerequisite: English 1.

One hour a week throughout the year.

PROFESSOR GOETZ.]

ENGLISH 9. *The chief American poets.* Bryant, Poe, Emerson, Longfellow, Lowell, Holmes, Whittier, Aldrich, Lanier, Whitman, and the leading contemporary poets.

Text: Percy H. Boynton's American Poetry.

Prerequisite: English 1; or its equivalent.

One hour a week throughout the year.

MR. RHODES.

ENGLISH 10. *The short story.* A reading course, to be supplemented by lectures or running comments on the beginnings and development of the short story as a literary form, together with reports on stories specially assigned.

Text: Modern Short Stories, edited by Margaret Ashmun.

Prerequisite: English 1, or its equivalent.

One hour a week throughout the year.

MR. ARVINE.

ENGLISH 18. *Debating*. A course combining theory and practice in debate, including brief-making and formal argumentation.

One hour a week throughout the year.

MR. WACHTER.

ENGLISH 19. *An elementary course in public speaking*. Introduces the work of English 20.

One hour a week throughout the year. Required of Arts and Science freshmen.

MR. WACHTER.

ENGLISH 20. *Public speaking*. A study of the principles of oral expression through platform interpretation of passages from great orations, together with practice in the preparation and delivery of brief, original addresses.

Prerequisite: English 19.

Two hours a week throughout the year.

MR. WACHTER.

FRENCH

(The courses in French are conducted largely according to the Direct Method, French being almost entirely the language of the class-room).

FRENCH 1. *Elementary*. Study of vowel sounds and diphthongs, careful drill in pronunciation. Elements of grammar; parts of speech, regular formations of feminine plural of nouns and adjectives; rules of agreement of adjectives and participle; regular formations of adverbs from adjectives; comparative, superlative (including irregular forms of adjectives and adverbs). Regular verbs; formation of tenses, use of the most common tenses; auxiliary verbs; most common irregular verbs. From the beginning of the course: reading of easy texts, conversation on the texts read, reproduction from memory of the texts read; translations in both languages, dictations, easy compositions.

Three hours a week throughout the year.

MR. AND MME. CASASSA.

FRENCH 2*. (*Intermediate*). Continuation of French 1, including reading of standard and (for pre-medical students) scientific texts; conversation on texts read; dictations, more advanced composition.

Prerequisite: French 1.

Three hours a week throughout the year.

MR. CASASSA.

FRENCH 3. (*For pre-medical students*). Constant practice in speaking and writing French. Advanced reading on scientific subjects. Discussions on

*Open to those who have completed French 1, or who enter with two years' credit in the language.

the subjects read, and written essays and oral discussions of illustrated lectures on scientific subjects to be given by the instructor.

Prerequisite: French 2.

Three hours a week throughout the year.

MR. CASASSA.

FRENCH 4. *French literature from the beginnings to the end of the sixteenth century.*

Text-book: *Littérature Illustrée*, by Abry and Audic. Reading texts to be selected during the year.

Prerequisite: French 2, or its equivalent.

Three hours a week throughout the year.

MR. CASASSA.

FRENCH 5. *French literature from the seventeenth century to our days.*

Text-book: *Littérature Illustrée*, by Abry and Audic. Reading texts to be selected during the year.

Prerequisite: French 4.

Three hours a week throughout the year.

MR. CASASSA.

The instructors in French, together with another person, have offered two cash prizes for excellence in French composition. They are:

(1) A prize of twenty dollars for the best essay on a scientific subject. Candidates for this prize are free to choose the subject of their thesis from among a number which will be announced. Any member of French 3 may compete, but the right is reserved to decline to award the prize if in the opinion of the judges no essay of sufficient worth is submitted.

(2) A prize of twenty dollars for the best essay on a literary subject, the theme to be chosen from among a number which will be announced. This prize is open to members of both French 4 and 5, but here also the right is reserved to withhold the award.

Further conditions, including the date when competing essays must be submitted, will be announced in ample time.

In the French department there has been organized a Cercle Français, membership in which is open to properly qualified students. The plans of the club for the coming year include regular meetings for conversation and simple dramatics.

GEOLOGY

GEOLOGY 1. *General earth science.* This course includes a synopsis of the leading facts and principles of physiography and geology, the study of common rocks and minerals, meteorological instruments and their uses, the interpretation and construction of maps. Field work will include studies of the

phenomena of dynamical, structural, and historical geology at Niagara Falls and many other points along the Niagara frontier.

Two recitations or lectures; field work, when the weather permits (at hours to be arranged), weekly, throughout the year. Three hours credit.

MR. PIPER.

GERMAN

GERMAN 1. (*Elementary*). This course seeks to lay a foundation for colloquial use of the language, and includes grammar, composition, and the reading of narrative prose and some lyrics.

Three hours a week throughout the year.

MR. SIEKMANN.

GERMAN 2*. (*Intermediate*). The first semester is devoted primarily to the reading of easy modern prose and to rapid review of grammar. Pre-medical students are given practice in scientific subjects. The second semester is given to the reproduction of ordinary narrative English into German, and to original composition and conversation based on texts read.

Three hours a week throughout the year.

MR. SIEKMANN.

GERMAN 3. (*Advanced German*). This course is conducted almost altogether in German and includes constant practice in speaking and writing German. It includes lectures and collateral reading, and is mainly devoted to the reading and interpretation of selections from Lessing, Goethe, Schiller, Heine, etc.

Prerequisite: German 2, or its equivalent.

Three hours a week throughout the year.

MR. SIEKMANN.

HISTORY

HISTORY 1. *European history from Charlemagne to Frederick the Great, 800-1740*. This course will deal with the main lines of the development of Europe and will furnish a background for the Europe of the nineteenth century. It includes Charlemagne's empire, feudalism, medieval life, the papacy, Mohammedanism, the crusades, the Renaissance, the Reformation, the wars of religion, the rise of modern states, discoveries and colonization. Lectures, text-book, collateral readings, recitations. Particular attention is given to the method of study and the use of materials by the student.

This course is the fundamental one in the department, being the prerequisite for the other courses in European history.

Text-book: Robinson's History of Western Europe.

Three hours a week throughout the year.

DR. SHEARER.

*Open to those who have completed German 1, or who enter with two years credit in the language.

[HISTORY 2. *European history from 1740 through 1870.* A continuation of History 1, the first semester opening with the accession of Frederick the Great and closing with the fall of the Napoleonic empire, including a somewhat detailed study of the French Revolution and Empire. The history of Europe from 1815 to 1871 forms the work of the second semester, special attention being given to the unification of Italy and Germany, and to major political changes in France. Text-books, lectures, and quizzes, and reports on assigned topics.

Prerequisite: History 1.

Three hours a week throughout the year.

PROFESSOR PARK.]

HISTORY 3. *European history from 1871 to 1918.* The diplomatic background of the Great War, together with significant features of its conduct. Considerable collateral reading.

Text-books: Davis' *Roots of the War*; Park's *Subject Peoples under the Teutons*.

Prerequisite: History 2.

Two hours a week throughout the year.

PROFESSOR PARK.

HISTORY 4. *Latin-American History and Conditions.* The Spanish colonial system; the wars for liberation, with biographies of the leaders; a synopsis of the later political and economic development of the republics, and present conditions and opportunities.

Text-book: Dawson's *South American Republics*. Considerable collateral reading; lectures.

Two hours a week during the second semester.

PROFESSOR PARK.

HISTORY 5. *History of the United States, 1740-1865.* This course deals with the formation of the United States, tracing in the first semester the course of the Revolution, the creation of a federal government, and the establishment of an independent federal policy; in the second semester, the rise of Northern and Southern sectional antagonism, culminating in the Civil War and the triumph of the Union.

Three hours a week throughout the year.

PROFESSOR PARK.

[HISTORY 6. *History of the United States, 1865-1918.* A continuation of History 5, emphasizing especially political and economic evolution and foreign relations, including America's part in the peace treaty of 1919.

Prerequisite: History 5.

Three hours a week during the first semester.]

HISTORY 10. *Regional history.* Lectures and collateral reading on the history of the Niagara frontier from the days of the French explorations to the present.

One hour a week during the first semester.

PROFESSOR PARK.

ITALIAN

[ITALIAN 1. (*Elementary.*) Fundamental principles of grammar and phonetics, with close attention to pronunciation and expression. Composition and oral drills are continued throughout the year, alternated with reading of simple texts, dictation, simple conversation, and memorizing of short extracts.

Text-books: Grandgent's Grammar and Composition; Wilkins' Notes on Italian Grammar; Bowen's Reader; Manzoni's *I Promessi Sposi*.

Three hours a week throughout the year.

MR. DI BARTOLO.]

[ITALIAN 2. (*Intermediate.*) Review and continuation of the study of grammar; reading and critical study of modern and classical authors; composition and conversation based upon the texts read; collateral reading, reports on assigned topics, letter-writing.

Prerequisite: Italian 1 or its equivalent.

Three hours a week throughout the year.

MR. DI BARTOLO.]

[ITALIAN 3. *History of Italian literature.* A series of lectures (delivered in English) to include in outline the whole range of Italian literature from the close of the middle ages to modern times.

Lectures, reports, collateral readings.

One hour a week throughout the year.

MR. DI BARTOLO.]

LATIN

LATIN 1. *Reading at sight*; selections from Cicero, Livy, Vergil, Ovid, Horace. This course is designed for those who have completed either three or four years' work in Latin in secondary schools. Ability to read at sight will be the primary object.

Three hours a week throughout the year. Required of Arts freshmen.

MR. ARVINE.

MATHEMATICS

MATHEMATICS 1. *Solid Geometry.* The work in this course is planned for special students and for students who do not offer the subject for entrance.

Two hours a week throughout the year.

PROFESSOR SHERK.

MATHEMATICS 2. *Algebra and Trigonometry.* A rapid review of elementary algebra, graphics, series, logarithms, permutations and combinations, trigonometric functions, formulae, identities, equations, general values of angles, inverse trigonometric functions, with solutions of triangles and applications.

Four hours a week during the first semester.

PROFESSOR SHERK.

MATHEMATICS 3. *Plane Analytic Geometry.* The straight line, the circle, transformation of co-ordinates, conic sections, tangents, and normals. The object of the course is to develop a correct notion of the analytic method and to lay the foundation for subsequent work in higher analysis.

Four hours a week during the second semester.

Courses 2 and 3 are required of arts and science freshmen, and of pre-medical sophomores.

PROFESSOR SHERK.

MATHEMATICS 4. *Advanced work in Plane Analytic Geometry; Solid Analytic Geometry.* A continuation of Mathematics 3. In solid Analytic Geometry the topics studied are the plane, the straight line, the sphere, cylinders, cones, surfaces of revolution, transformation of co-ordinates, spherical and cylindrical co-ordinates, quadric surfaces, and ruled surfaces.

Two hours a week throughout the year.

PROFESSOR SHERK.

MATHEMATICS 5. *Calculus: differential and integral.* Theory of limits, derivatives of algebraic functions with applications, anti-derivatives of simple algebraic functions, differentials, derivatives of transcendental functions, successive differentiation and integration, definite integrals and applications to geometry and mechanics, special methods of integration, functions of two or more variables, multiple integrals, infinite series, approximate integration.

Course 4 should either precede or parallel this course. Courses 2 and 3 are prerequisite.

Three hours a week throughout the year.

PROFESSOR SHERK.

MATHEMATICS 6. *College Algebra; Theory of Equations.* A rapid review of algebra from the beginning and a more detailed study of series, permutations and combinations, the theory of equations and determinants.

Two hours a week throughout the year.

PROFESSOR SHERK.

MATHEMATICS 7. *Analytic Mechanics.* Moments of mass and inertia, kinematics, kinetics, work, energy, impulse, motion of a particle in a constant field, central forces, harmonic field, potential and potential energy, dynamics of a rigid body, equilibrium of coplanar forces.

Prerequisites: Mathematics 4 and 5, Physics 1.

Three hours a week throughout the year.

PROFESSOR SHERK.

MECHANICAL DRAWING

Examples for practice in the use of instruments and problems in geometrical construction, conic sections, and orthographic projection. Problems in orthographic, isometric, and oblique projection, development and intersection of surfaces; spirals, helices, screw-threads and bolt-heads.

Two periods of two hours each, weekly, throughout the year.

MR. HOPKINS.

PEDAGOGY

(See Department of Education).

PHILOSOPHY

PHILOSOPHY 1. *Principles of Psychology.* The aim of this course is to present the chief facts and principles of psychology in such a way as to render them of vital significance and helpfulness to the student. Special attention will be given to such topics as utilization of instinctive tendencies, sense training and learning through observation, motor activity and learning through doing, thought process and training to reason, the development of skill, the formation of character. To make the course practical, problems studied will be applied to sociological conditions.

Methods used are informal lectures, recitations and discussions based on text; outlines, charts, exercises and simple experiments supplementing text work; selected collateral reading with reports.

Two hours a week throughout the year.

DR. CHASE.

PHYSICS

PHYSICS 1. (a) *Mechanics.* Motion, force, gravitation, the pendulum, work, energy, the lever, the pulley, the wheel and axle, the inclined plane, the wedge, the screw, hydraulic pressure, friction, states of matter, surface tension, capillarity, the barometer, the siphon, pumps, buoyancy, and specific gravity.

(b) *Heat.* Temperature, thermometers, expansion, heat energy, steam engine, gas engine, measurement of heat, transmission, change of state.

(c) *Electricity.* Frictional electricity, magnetism, batteries, galvanometers, resistance, current induction, chemical effects, magnetic effects, heat effects, the electric bell, the telegraph, the dynamo, the motor, the telephone, the incandescent lamp, and the arc lamp.

Text-book: College Text-book of Physics (revised), by A. L. Kimball.

Two recitations and two laboratory exercises of two hours each, weekly, throughout the year; four hours credit. Required of pre-medical freshmen.

MR. THOMAS, MR. PIPER, MR. DAYMAN.

PHYSICS 2. (a) *Sound.* Vibratory motion, wave motion, sound origin, sound transmission, sound velocity, resonance, interference, intensity, pitch, timbre, string vibration, wind instruments.

(b) *Light.* Origin, transmission, intensity, reflection, refraction, deviation, dispersion, color, spectra, interference, diffraction, plane mirrors, spherical mirrors, lenses, optical instruments.

(c) Students make an especially thorough study of the kymograph, signal magnet, blood circulation apparatus, inductorium, slide ruler, and other devices used in medical work.

(d) Much importance is placed upon the study of radio-activity, Röntgen rays, wireless telegraphy, and the electronic theory.

(e) Each student spends considerable time upon a topic to be designated by the instructor, including both library and laboratory research.

Prerequisite: Physics 1.

Two recitations and one laboratory exercise of two hours, weekly, throughout the year; three hours' credit. Required of pre-medical Sophomores.

MR. THOMAS.

PHYSIOLOGY

(See Department of Biology).

PUBLIC SPEAKING

(See Department of English).

SPANISH

(The courses in Spanish are conducted largely according to the Direct Method, Spanish being, as far as possible, from the beginning the language of the classroom).

SPANISH 1. *Elementary grammar and reading of classical and modern Spanish.* This course includes a practical training in the language.

Three hours a week throughout the year.

MR. SOTO.

SPANISH 2. *Advanced grammar; commercial Spanish.* Constant practice in conversation, reading, and composition.

Prerequisite: Spanish 1.

Three hours a week throughout the year.

MR. SOTO.

Summer Courses

The college offers certain summer courses of six or seven weeks duration in subjects for which there is sufficient demand. For the successful completion of these intensive courses credit for one semester is usually granted. A separate announcement giving details of the courses to be given during the summer of 1919 will be prepared and may be had on application in June. During the summer of 1918 the only summer courses offered were in chemistry and physics.

General Information

COLLEGE BUILDING

For the present the work of the college is carried on—with the exception of chemistry, for which the dental laboratories are used—in Townsend Hall, where formerly the Women's Educational and Industrial Union, the donors of the building, successfully organized valuable activities along educational lines; and the structure is admirably adapted for class-room purposes, the University having adequately equipped the rooms with the necessary furniture and with laboratory facilities. Much of the furnishing of the building the University also owes to the generosity of the Women's Union. On the ground floor are the college office, the library, and librarian's office, the auditorium with a seating capacity of 600, a girls' study-room, and boys' locker-room. On the second, third, and fourth floors are the Dean's office, numerous recitation- and conference-rooms of varying sizes, laboratories, and girls' rest-rooms.

A reference library, now consisting of about five thousand volumes, has been begun, and is accommodated in the Ripley Memorial Library room. Students have direct access to all books, the library being open from 9 A. M. to 6 P. M. on every week day during the college year and during vacations at stated hours. A card catalogue covers the collection. Books of a general nature, not in use by any class, may be drawn by students, two volumes at a time, to be retained for two weeks. Monthly or quarterly periodicals may be drawn for two days, weeklies for over night. In addition to the Arts library are those of the other departments of the University. The libraries of the Medical and Law departments, amounting respectively to 15,000 and 5,000 volumes, contain considerable material of value to those pursuing certain kinds of college work. Moreover, the resources of the Buffalo Public Library and the Grosvenor (reference) Library are at the disposal of students, the building of the former being but three blocks distant from Townsend Hall.

The college library is kept constantly up to date through funds expended for that purpose and through the generosity of various

friends. The Women's Educational and Industrial Union recently contributed the sum of three thousand dollars to be known as the Cora Bullymore Fund. Books purchased from the income of this fund are marked with a special book-plate, also the gift of the Union.

The University of Buffalo is a member of the Buffalo Educational Union, which includes, besides the two city libraries, the Society of Natural Sciences, the Historical Society, and the Fine Arts Academy (Albright Art Gallery). Each member of the Union offers peculiar advantages to University students. Lecturers from the Historical Society and the Society of Natural Sciences have delivered public lectures at the college, a co-operation which attracted large audiences.

LECTURES AND ASSEMBLIES

An assembly of students and instructors is held at intervals in Townsend Hall. At these meetings there is often music and an address by some guest of the University or a member of the faculty, so that during the year a number of instructive and helpful talks are given. Several special lecturers, generally professors in other universities, come during the fall and winter to give addresses on subjects in which they are authorities, and these extension lectures are free to the general public.

No compulsory religious exercises are held by or at the University. Many churches, however, conduct Bible classes especially for students of the various denominations.

At convocations and other public functions, members of the faculty wear academic costume in keeping with their degrees. The University colors are white and blue.

SCHEDULE OF EXPENSES

Every student on entering the college is required to pay a matriculation fee of \$5, which is not returnable. This fee is payable only once during the student's connection with the college and is not required of students transferring from another institution if evidence is submitted that such a fee was paid in the former institution.

All fees for instruction and other items, shown in the following table, are payable in advance on or before the first day of each semes-

ter. In case payment is not made within two weeks the student is suspended until he is no longer in arrears. Absence due to such exclusion will be deducted from the student's allowance of absence. No student may receive a certificate of honorable dismissal until he has paid all dues to the college treasurer and returned all books to the library.

Matriculation	\$ 5.00
Tuition fee for all regular students (those carrying from 16-19 hours weekly) and for special students carrying 9 hours or more, each semester.....	55.00
Athletic fee (required of all regular students) each year.....	7.00
Breakage deposit (required of all students carrying 9 hours or more and of all students carrying any science).....	7.00
Laboratory fees for science courses, payable at beginning of first semester:	
Chemistry	15.00
Physics	10.00
Biology	10.00
Lockers are rented for—yearly.....	.50

FEES GOVERNING SPECIAL STUDENTS

Special students are those taking less than 16 hours of work weekly. The fee is \$5 for each hour of instruction per week, with a minimum fee of \$10; that is, for a course (such as English 1) occurring three hours a week, the fee would be \$15 a year; for a course such as Psychology it would be \$10. In case, however, special students take work aggregating from 9 to 15 hours, inclusive, weekly, their tuition amounts to the same as that paid by regular students. For a semester course the charges are half those for a year course.

REFUNDS

If, on account of serious illness or other sufficient reason, a student withdraws before the middle of a semester, one-half of all the fees he has paid (exclusive of the matriculation fee and fees for

student activities paid through the college) will be refunded; but no refunds will be made under any other circumstances, nor will any balance from breakage deposits be refunded unless called for before June 30.

ROOMS AND BOARD

Rooms and board may be secured at reasonable rates near the University buildings. Information may be obtained at the office of Townsend Hall, and through the college department of the Young Men's and Young Women's Christian Associations.

FACILITIES FOR SELF-SUPPORT

The University encourages self-supporting students, but it cannot undertake to furnish employment. However, the fact that many of these courses are given in the afternoon makes it possible for energetic students to earn at least a portion of their expenses during the earlier hours of the day, and some of them do so. The student department of the Y. M. C. A. conducts an employment bureau, through which assistance is given to men in finding outside work.

SCHOLARSHIPS

(1, 2, 3) According to the terms of the gift by which Townsend Hall became the property of the University, three scholarships in the Arts Department are to be awarded in perpetuity to young women. These scholarships are known as (1) the Women's Educational and Industrial Union scholarship, (2) the Fiske scholarship of household arts*, and (3) the Founders' scholarship. The scholarships cover all the necessary fees as well as the cost of tuition.

(4) The Buffalo City Federation of Women's Clubs established in 1909 the first scholarship for the future Arts Department. In honor of the honorary president of the Federation, Mrs. John Miller Horton, it is known as the Katherine Pratt Horton scholarship, and became available to young women during the session of 1914-15. It is of the value of \$100.

*Until such time as work in household arts shall be established this scholarship is applied in the Department of Arts and Sciences.

(5) The Women's Investigating Club of Buffalo has established for young women a general University scholarship, the recipient being free to choose the department in which it may be applied. This scholarship is of the value of \$100 annually, and requests for information, as well as applications, should be addressed to the chairman of the committee, Mrs. Irene M. Servoss, 83 Claremont Avenue.

(6) The Pascal P. Pratt scholarship for men is given by Mrs. John Miller Horton in memory of her father, who was one of Buffalo's early and prominent benefactors and philanthropists, long interested in the education and welfare of young men and in the diffusion of popular education. This scholarship is of the value of \$100.

The Scholarship Committee of the faculty reserves the right to refuse to recommend for the continuance of any scholarship those whose standings or deportment warrant such action.

Except where otherwise mentioned, the faculty awards all scholarships, and requests for application blanks should be addressed to the Dean. All applications must be filed before July 1.

STUDENT ACTIVITIES

The faculties of the several departments are united in their desire to encourage those student activities which make for a more complete fellowship among the students and for a greater solidarity throughout the institution as a whole.

Athletics are controlled by the Executive Board of the Athletic Association. This board is composed of two student representatives from each of the departments of the University, together with three faculty members chosen from the Student Activities Committee, one of whom acts as faculty treasurer, and another as faculty manager.

The membership fee in this organization is seven dollars yearly, which is to be paid by all regular students to the college treasurer at the time of paying the regular University fees. Upon the payment of this fee, the student receives from the Athletic Association a season ticket of admission to all University athletic events held in Buffalo. *

Beside athletics, the undergraduate activities comprise a monthly magazine, "The University Bison," musical clubs, including the University glee club, band and orchestra, dramatic club, the Y. M. C. A.,

etc. To supervise these and any other extra-curriculum activities, there is an advisory faculty committee on student activities, composed of two instructors from each of the five departments.

COMMITTEE ON STUDENT ACTIVITIES

Faculty of Medicine...	Dr. C. C. Cott (faculty manager of athletics), Dr. Bentz
Faculty of Pharmacy.....	Professor Irons (treasurer), Dr. Lemon
Faculty of Law.....	Mr. Schlenker, _____
Faculty of Dentistry.....	Professor McCall (secretary), Professor Hoffman
Faculty of Arts and Sciences.....	Professor Sy (chairman), Mr. Arvine

UNIVERSITY YOUNG MEN'S CHRISTIAN ASSOCIATION

The object of the University Young Men's Christian Association is the development of an "all round" manhood. It believes in promoting fellowship among all students, and desires to make itself helpful in every way possible. To this end it seeks to assist all students in finding suitable boarding accommodations, securing employment, and to provide social gatherings of the right kind.

The membership fee is nominal and the membership ticket entitles the holder to valuable privileges at the Central Young Men's Christian Association building, which is one of the finest association buildings in the world. By a special concession the rate for the use of the gymnasium and plunge is made very low to University students, in order that all may be able to secure the physical training so essential to fullest health and highest efficiency.

COMMITTEE OF MANAGEMENT

UNIVERSITY Y. M. C. A.

Faculty of Pharmacy.....	Dean Gregory (chairman), Professor Long
Faculty of Arts and Sciences.....	Dean Park (treasurer), Professor Day
Faculty of Medicine.....	Dr. Leonard, Professor Atwell
Faculty of Dentistry.....	Dean Squire, Professor Buell
Faculty of Chemistry.....	Professor Sy
Faculty of Law.....	Dean Alden
Executive Secretary.....	William E. Holler

YOUNG WOMEN'S CHRISTIAN ASSOCIATION

The purpose of the Young Women's Christian Association, through its many and varied activities, is to deepen and broaden the entire life of every young woman. The student department of the Buffalo Association carries on work in several schools and the central building offers many advantages to students. The building, located on West Mohawk Street, near Main, is equipped with a gymnasium, swimming pool, reading room, and is splendidly adapted to its purposes. Opportunities for social gatherings and other recreation are given young women from out of town. The buildings of both the Y. M. C. A. and the Y. W. C. A. are in close proximity to Townsend Hall.

Students 1918-1919

(As of January 1, 1919).

FRESHMEN

André, Paul C.	Joy, Russell A., Fredonia
Bates, Margaret E., Akron	Kaeselau, Ernest A.
Bates, Marlo P., Brooklyn	Kendall, Luther H.
Beck, Louis P. R., Kenmore	Koenig, Caroline H.
Black, Edith, Orchard Park	Koenig, Claremont J.
Buffum, Edward S., East Aurora	Kreinherder, Henry W.
Buscaglia, John J., Dunkirk	Land, Adelle H.
Cogan, Meyer	Lojacano, Carl R.
Cohen, Ruby E.	Mietus, Conrad A.
Conn, Alfred	Miller, M. Virginia, Niagara Falls.
Cristina, Jerome F.	Mowat, Kenneth G.
Daniels, Francis R., Rochester	Muscato, George H., Silver Creek
Dikeman, Lester A., Westfield	O'Connor, Charles M., Oil City, Pa.
DiNatale, Peter J., Batavia	Paciulli, Orlo C., Elkland, Pa.
Dolan, Bernard J., Hallstead, Pa.	Peacock, Harleigh S.
Dolan, James E., Hallstead, Pa.	Pillion, Ethel D., Lackawanna
Farber, Marvin	Regan, J. Sutton, Oswego
Gimbrone, Rose J.	Ronkowski, Edward E.
Guercio, Michael S.	Sanborn, Lee R., Sanborn
Gursslin, Nova A., Fort Erie	Smith, Beatrice A.
Hanley, Janet R.	Smith, Georgia A., Kenmore
Hauser, David H., Girard, Ohio	Sutton, Carrie M., Akron
Hitzel, Beulah C.	Tompkins, Anna G., North Tonawanda
Holl, Frederick J. E.	Turner, Richard J., Elmira
Hyman, Nathan	Vaughan, Stuart L., Arcade
Jerge, Isadore L., East Aurora	Wendling, Irene J.
Jones, Ruth E.	Wetzen, Delmo
Jones, Yerby F.	Woodward, Pearl E.
Josephson, Emil	

SOPHOMORES

Anderson, Windom E.	Chely, Louis H., Elmira
Beck, Gilbert M.	Cherry, Clarissa
Berry, George D., North Tonawanda	Chojnacki, Leon
Brown, William	Chojnacki, Louis
Bukowski, Edward B.	Cohen, Donald
Burwig, Herbert	Connelly, Leo A., Saratoga Springs
Butman, Harold A.	Cowper, Gwendolyn E.
Catalano, Marietta	Davenport, Harriet E.
Chassin, Norman A., Eggertsville	Davis, J. Leverett, Penn Yan

SOPHOMORES—Continued

Dunn, W. Augustine, Bolivar	Palisano, Philip A.
Dywinski, Edmund B.	Ravnitsky, Nathan
Ferrand, Elsie M., Gardenville	Reif, Katherine C.
Galantowicz, Henry C.	Siegel, Louis A.
Geraci, Santino P.	Smith, Newton D.
Graser, Norman F.	Stewart, William C., East Aurora
Hunt, J. Harold, Elmira	Storner, Henry
Koch, Caryl	Syracuse, Joseph A. E.
Koscianski, Leo C.	Taylor, A. Katherine
Krombein, Walter H.	Turk, Florence L.
LaBurt, Harry A., Elmira	Varco, Samuel
McAuliffe, Joseph S., Benton, Pa.	Vastola, Rose M.
MacCordock, Howard A.	Waite, Mrs. Rosamond H.
Marmorston, Jessie E.	White, D. Ward, Niagara Falls
Murphy, Frank A., Rochester	Wineburgh, Jacob, Utica
Nordstrom, Chester A., Jamestown	

JUNIORS

André, Rose H.	Fox, Annis E.
Aronson, Joseph	Linderman, Randolph S., N. Tonawanda
Barnes, Claudia M.	Ulrich, Anna C.

SPECIAL STUDENTS

(With Year of Matriculation).

Agnew, Mary C. H. '13	Dickson, Elizabeth '16
Airey, Edward G. '18	Donk, Rose R., M. D. '18
Armstrong, Kathleen '18	Dreyfuss, Milton M. '18
Baker, Myrtle '18	Fisher, Katharine '15
Bartow, Harriet M. '16	Fix, Julia E. '17
Beach, Channing E., M. D. '97	Folsom, Frances L. '15
Beaton, Charlotte P. '15	Frey, Emil '13
Brady, Eva G. '18	Fuchs, M. Cornelia '16
Brick, Veronica D. '17	Galvin, Annabel D. '18
Bruck, John P. '18	Gates, Ada M. '18
Bugbee, Orin '97	Geoghan, Agnes E. '14
Campbell, Mary E. '17	Goehle, Alfred M. '18
Champlin, Ellis H. '18	Gibson, Mary H. '16
Churchill, May Thirza '18	Giesser, Rosina L. '15
Clark, Will Mosher '18	Goetz, Eleanor J. '18
Croll, Justina R. '16	Greenburg, Joseph '18
Deters, Emma E. '18	Greene, Mrs. James W. '15
DeViney, G. Herbert '14	Griffith, Willard B. '18

SPECIAL STUDENTS—Continued

Gruber, Emma E. '17	Mikulski, Florence '18
Hall, Mrs. Myron M. '17	Moore, Vincent J. '16
Hamilton, Edith M. '16	Morgan, Mary L. '14
Harrigan, Mary M. '18	Newlands, Ethel M. '17
Hartmann, Mrs. Alice S. '16	Newman, Angela '16
Hawkins, Nell '18	Navagh, Mary E. '13
Hodges, Dorothy '17	Nicholls, Mrs. Burr H. '16
Himes, Annie L. '18	Paris, Russell '18
Hodgkins, Mary E. '17	Park, Mrs. Julian '15
Hodgson, Dorothy '15	Parke, Mrs. Fenton M. '15
Hoffman, Mrs. Agnes '18	Penfold, Arthur '18
Hofmeister, Eugene '18	Pincus, Harry '17
Houghton, Frederick '97	Pritchard, Florence E. '16
Hoyer, Florence L. '18	Rands, Marion L. '18
Huntz, Laura '16	Reuss, Clara, Cincinnati, Ohio '18
Jackson, Marion, Lancaster '17	Rich, Mrs. Alice P. '16
Jamieson, Jessie M. '15	Ross, Mildred E. '18
Kempke, Ida M. '17	Scanlan, Mrs. Maud Ross '18
Kidder, Ada May '17	Seitz, Cora M. '13
Knell, Louis J., M. D. '15	Sharp, Mrs. Edward A. '18
Leahy, Jennie E. '16	Silverberg, Celia '18
Leonard, Florence V. '15	Smallenburg, Ella G. '18
Ludwig, Mary L. '15	Smallenburg, Harry '17
McCargar, Clarice '16	Sommer, Mrs. Augusta W. '13
McCarthy, Charles R. '18	Spinner, Lena '15
McConnell, William R. '18	Steenman, Margaret M. '18
May, Florence J. '18	Trant, Amelia Earle, M. D. '15
Maytham, Marian '18	Villiaume, Emma L. '18
Meinhold, Albert A., '18	Wheeler, Mrs. Mollie K. '18
Merington, Mary E. '17	Wittlief, Bertha G. '15

SUMMARY

Freshmen	57
Sophomores	49
Juniors	6
Special Students	96

208

Alumni Associations

FEDERATED ALUMNI ASSOCIATION

Organized University Day (February 22) 1915

This Association was organized on University Day (February 22, 1915), and comprises the alumni of all the departments of the University. It is managed by the House of Delegates, consisting of three representatives from each department, viz.: the president of each departmental association, one member appointed by him, the Dean of the Department, and the presidents of the five district branch associations. The President of the Federated Alumni is respectively the President of the Departmental Association in order of seniority. This year the Dental President holds this position.

The Association holds its annual meeting on the evening of University Day—the fifth meeting to be held in Buffalo on February 22, 1919.

OFFICERS 1917-18

<i>President</i>	CHARLES A. PANKOW, D. D. S., '05 (President Dental Alumni)
<i>Vice-President</i>	CARLOS C. ALDEN, J. D. (Dean Law Department)
<i>Secretary</i>	A. BERTRAM LEMON, Ph. G., Phar. D., '13 (Delegate Pharmacy Alumni)
<i>Treasurer</i>	WILLIAM F. JACOBS, M. D., '08 (President Medical Alumni)

SOUTHERN NEW YORK AND WESTERN PENNSYLVANIA DISTRICT

Organized March 30, 1914, at Elmira; next meeting, March 24, 1919, at Elmira

<i>President</i>	ABRAHAM LANDE, M. D., '05, Elmira
<i>Secretary</i>	HARRY C. JEWETT, Ph. G., '06, Binghamton

ROCHESTER DISTRICT

Organized at Rochester, on April 15, 1914; next meeting at Rochester, April 17, 1919.

<i>President</i>	GEORGE M. GILBERT, Ph. G., '08, Rochester
<i>Secretary</i>	RALPH B. INGLESBEE, LL. B., Rochester

CENTRAL AND NORTHERN NEW YORK ALUMNI ASSOCIATION

Organized at Syracuse, on February 10, 1915; next meeting at Syracuse,
January 21, 1919.

President.....CHARLES F. TUCKER, M. D., '94, Syracuse
Secretary.....CHARLES A. BRADSHAW, D. D. S., '95, Syracuse

CHAUTAUQUA DISTRICT

Organized November 18, 1915.

President.....S. J. EARLY, D. D. S., '09, Olean
Secretary.....MELVIL S. COXE, M. D., '04, Dunkirk

METROPOLITAN DISTRICT

Organized March 28, 1916

President.....S. W. S. TOMS, M. D., '91, Nyack
Secretary.....FRANK M. ENDE, M. D., '12, New York City

In addition, each department of the University has its separate Alumni
Association.

Announcements of the Professional Departments for 1919-1920

A copy of the catalogue of each department will be sent on application to the registrar.

MEDICAL DEPARTMENT

The 74th regular session begins September 29, 1919. The only medical school in a city of 480,000 population; clinical facilities at twelve hospitals and dispensaries; 15,000 volumes in library; ample number of annual hospital appointments in the city; faculty of over 100. Extensive opportunities for study in laboratories, hospital wards, and dispensaries. Two-year college entrance requirement.

DEPARTMENT OF PHARMACY AND ANALYTICAL CHEMISTRY

The 34th regular session begins September 29, 1919. Three courses of instruction are offered—Pharmacy, Analytical Chemistry, and Post-graduate, leading respectively to the degrees of Ph. G.; A. C.; Phar. M., and Ph. C. The post-graduate course consists of an additional year's work following the completion of the two-year pharmacy course, and leads to the degree of Pharmaceutical Chemist or Master of Pharmacy. The pharmacal, chemical, pharmacognocal, microscopical, and other laboratories are completely equipped for instruction. The analytical chemistry laboratories are also complete in equipment, and field work is ample, due to the various industries in and about Buffalo.

DEPARTMENT OF LAW

The 29th regular session begins September 29, 1919. The course is one of three years, leading to the degree of Bachelor of Laws, and affords a practical legal training, fitting the student for immediate work upon graduation. The School occupies the entire building at 77 West Eagle Street, situated opposite the City and County Hall and in close proximity to the City Court building, which constitute the laboratories of the law student.

DEPARTMENT OF DENTISTRY

The 28th regular session begins September 29, 1919, in the building erected for this department on Goodrich Street, adjoining the building of the departments of Medicine, Pharmacy and Chemistry. Every facility for the study of dentistry in all its branches has been provided, the equipment being adequate in every respect. Special attention is given to practical work, the infirmary furnishing an abundance of clinical material.

CALENDAR-1919

JULY.

S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	..	1	2	3	4	..	..	1	2	3	4	5
5	6	7	8	9	10	11	6	7	8	9	10	11	12
12	13	14	15	16	17	18	13	14	15	16	17	18	19
19	20	21	22	23	24	25	20	21	22	23	24	25	26
26	27	28	29	30	31	..	27	28	29	30	31	..	..

AUGUST.

S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	2	3	4	5	6	7	1	..	..	..	..	1	2
9	10	11	12	13	14	15	10	11	12	13	14	15	16
16	17	18	19	20	21	22	17	18	19	20	21	22	23
23	24	25	26	27	28	..	24	25	26	27	28	29	30

SEPTEMBER.

[illegible]

OCTOBER.

S	M	T	W	T	F	S	S	M	T	W	T	F	S	
..	6	7	1	2	3	4	5	1	2	3	4
13	14	15	16	17	18	19	12	13	14	15	16	17	18	
20	21	22	23	24	25	26	19	20	21	22	23	24	25	
27	28	29	30	..	..	..	26	27	28	29	30	31	..

NOVEMBER.

S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	..	..	1	2	3	..	..	..	..	..	..	1
4	5	6	7	8	9	10	2	3	4	5	6	7	8
11	12	13	14	15	16	17	9	10	11	12	13	14	15
18	19	20	21	22	23	24	16	17	18	19	20	21	22
25	26	27	28	29	30	31	23	24	25	26	27	28	29
							30						

DECEMBER.

S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	..	1	2	3	4	5	6
8	9	10	11	12	13	14	7	8	9	10	11	12	13
15	16	17	18	19	20	21	14	15	16	17	18	19	20
22	23	24	25	26	27	28	21	22	23	24	25	26	27
29	30	28	29	30	31



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Publications of the University

*Any of which will be sent on application to the
proper department.*

UNIVERSITY OF BUFFALO BULLETIN (College of Arts and Sciences)
quarterly.

DEPARTMENT OF MEDICINE, Catalogue and Alumni Directory.

COLLEGE OF PHARMACY, Bulletin (quarterly).

DEPARTMENT OF LAW, Annual Announcement and Register.

COLLEGE OF DENTISTRY, Bulletin (quarterly).

BOOKLET OF ILLUSTRATIONS.

A HISTORY OF THE UNIVERSITY, 1846-1917.

Undergraduate Publication—"The University Bison." Subscription \$1.00.

Recent issues of The University of Buffalo Bulletin have included:

April, 1917—"FOOD PREPAREDNESS."

October, 1917—"FOOD PREPAREDNESS Bulletin No. 2: "Food Values"
(Illustrated). Out of print.

January, 1918—Catalogue Number, 1917-1918.

April, 1918—"DRINKING WATER" (Illustrated).

July, 1918—"SUBJECT PEOPLES UNDER THE TEUTONS"
(Illustrated).